

AMENDMENTS TO THE CLAIMS:

Please cancel Claim 31 without prejudice to or disclaimer of the subject matter recited therein.

Please amend Claim 19, 24, 25, and 30 as follows:

1- 18. (Cancelled)

19. (Currently Amended) A video information processing apparatus configured to convert interlaced video information into progressive video information, comprising:

a pixel value information storing unit for storing inputted pixel value information on reference pixels on interlaced lines in each of a plurality of fields;

a reference pixel motion information generating unit for generating motion information on each reference pixel which indicates whether a reference pixel is a moving image or a still image at least based on difference between the pixel value information on two reference pixels at the same position in different fields;

a reference pixel motion information storing unit for storing the motion information on each reference pixel generated by the reference pixel motion information generating unit for a plurality of fields; and

an interpolation pixel motion determining unit for determining whether motion information on an interpolation pixel on a line between two interlaced lines is a moving image or a still image based on the motion information on ~~[[a]] reference pixel adjacent to an interpolation pixel in a field of interest, and the motion information on a reference pixel in a field previous to the field of interest and the motion information on a reference pixel in a next field following the field of interest, the reference pixels in the previous field and next field being at the same~~

position as the interpolation pixel in the field of interest pixels stored in said reference pixel motion information storing unit.

wherein the reference pixel motion information generating unit determines the motion information on the reference pixel in an n-th field as a moving image when a difference of the pixel value information between the reference pixel in the n-th field and the reference pixel at the same position in the (n-2)-th field is longer than a predetermined value, and, otherwise, determines the motion information on the reference pixel in the n-th field as a still image, and

wherein the interpolation pixel motion determining unit is adapted to determine the motion information on the interpolation pixel in the n-th field of interest as a moving image when the motion information on the reference pixel adjacent to the interpolation pixel ~~in the field of interest~~ on a line above or below the interpolation pixel in the n-th field indicates a moving image, or when both of the motion information on the reference pixel in the (n-1)-th field previous to the field of interest and the motion information on the reference pixel in the next (n+1)-th field indicate a moving image, the reference pixels in the (n-1)-th field and the (n+1)-th field being at the same position as the interpolation pixel in the n-th field, and, otherwise, to determine the motion information on the interpolation pixel in the n-th field of interest as a still image.

20 - 23. (Cancelled)

24. (Currently Amended) A video information processing apparatus according to claim 19, further comprising:

an interpolation pixel value information generating unit for generating pixel value information on the interpolation pixel in the n-th field based on the pixel value information on a reference pixel in the previous (n-1)-th field when the motion information on the interpolation pixel in the n-th field of interest is determined as a still image by the interpolation pixel motion

determining unit, and for generating pixel value information on the interpolation pixel in the n-th field based on the pixel value information on reference pixels in the n-th field of interest when the motion information on the interpolation pixel in the n-th field of interest is determined as a moving image by the interpolation pixel motion determining unit.

25. (Currently Amended) A video information processing method for converting interlaced video information into progressive video information, said method comprising:

a pixel value information storing step of storing inputted pixel value information on reference pixels on interlaced lines in each of a plurality of fields;

a reference pixel motion information generating step of generating motion information on each reference pixel which indicates whether a reference pixel is a moving image or a still image at least based on difference between the pixel value information on two reference pixels at the same position in different fields;

a reference pixel motion information storing step of storing the motion information on each reference pixel generated in the reference pixel motion information generating step for a plurality of fields; and

an interpolation pixel motion determining step of determining whether motion information on an interpolation pixel on a line between two interlaced lines is a moving image or a still image based on the motion information on [[a]] reference pixel adjacent to an interpolation pixel in a field of interest, and the motion information on a reference pixel in a previous field previous to the field of interest and the motion information on a reference pixel in a next field following the field of interest, the reference pixels in the previous field and next field being at the same position as the interpolation pixel in the field of interest pixels stored in the interpolation pixel motion determining step.

wherein the reference pixel motion information generating step determines the motion information on the reference pixel in an n-th field as a moving image when a difference

of the pixel value information between the reference pixel in the n-th field and the reference pixel at the same position in the (n-2)-th field is larger than a predetermined value, and, otherwise, determines the motion information on the reference pixel in the n-th field as a still image, and

wherein the interpolation pixel motion determining step comprises the steps of determining the motion information on the interpolation pixel in the n-th field of interest as a moving image when the motion information on the reference pixel adjacent to the interpolation pixel on a line above or below the interpolation pixel in the n-th field in the field of interest indicates a moving image, or when both of the motion information on the reference pixel in the (n-1)-th field previous to the field of interest and the motion information on the reference pixel in the next (n+1)-th field indicate a moving image, the reference pixels in the (n-1)-th field and the (n+1)-th field being at the same position as the interpolation pixel in the n-th field, and, otherwise, determining the motion information on the interpolation pixel in the n-th field of interest as a still image.

26 - 29. (Cancelled)

30. (Currently Amended) A video information processing method according to claim 25, further comprising:

an interpolation pixel value information generating step of generating pixel value information on the interpolation pixel in the n-th field based on the pixel value information on a reference pixel in the previous (n-1)-th field when the motion information on the interpolation pixel in the (n-1)-th field of interest is determined as a still image in the interpolation pixel motion determining step, and of generating pixel value information on the interpolation pixel in the n-th field based on the pixel value information on reference pixels in the n-th field of interest when the motion information on the interpolation pixel in the n-th field of interest is determined as a moving image in the interpolation pixel motion determining step.

31. (Cancelled)